

Title (en)

Method for connecting electrical wire to a terminal pin.

Title (de)

Verfahren zum Verbinden eines elektrischen Drahtes mit einem Endkontakt.

Title (fr)

Méthode pour connecter un fil électrique à une fiche terminale.

Publication

**EP 0015062 A1 19800903 (EN)**

Application

**EP 80300197 A 19800122**

Priority

US 694379 A 19790125

Abstract (en)

[origin: US4230930A] A method for welding an electrical lead wire to a terminal pin with the use of a laser beam. The method is particularly designed for use in welding an electrical lead wire of an exhaust gas sensor to a terminal pin having an opening through which the electrical lead wire extends to the exterior of the pin. The lead wire may be made of nichrome material and the terminal pin from leaded steel. The laser beam is positioned vertically above the extended portion of the lead wire and its focal point is above the end of the lead wire. No separate filler metal is required since the lead wire material is itself available as a filler material.

IPC 1-7

**H01R 4/02**; **B23K 26/00**; **G01N 27/56**

IPC 8 full level

**B23K 26/00** (2006.01); **B23K 26/20** (2006.01); **B23K 26/32** (2006.01); **F02D 35/00** (2006.01); **G01N 27/407** (2006.01); **G01N 27/409** (2006.01); **H01R 4/02** (2006.01); **H01R 43/02** (2006.01)

CPC (source: EP US)

**B23K 26/22** (2013.01 - EP US); **G01N 27/4062** (2013.01 - EP US); **G01N 27/407** (2013.01 - EP US); **H01R 43/02** (2013.01 - EP US); **B23K 2103/04** (2018.07 - EP US)

Citation (search report)

- US 4168875 A 19790925 - LEONARD JR ROBERT D, et al
- US 4111778 A 19780905 - DAVIS DONALD COLEN, et al
- US 3610874 A 19711005 - GAGLIANO FRANCIS PATRICK

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US6055847A; US6067843A; WO9704306A1; WO9518965A1

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

**EP 0015062 A1 19800903**; **EP 0015062 B1 19830504**; CA 1144991 A 19830419; DE 3062914 D1 19830609; JP S55103291 A 19800807; US 4230930 A 19801028

DOCDB simple family (application)

**EP 80300197 A 19800122**; CA 343388 A 19800110; DE 3062914 T 19800122; JP 739680 A 19800124; US 694379 A 19790125